

- Lens board frame
 Front frame
 Bellows tack (8P8-635)
 Tacking strip

- 5. Yarn 6. Body 7. Bellows 8. Screw (8P8-415)

Figure 6. Bellows (8P8-45)

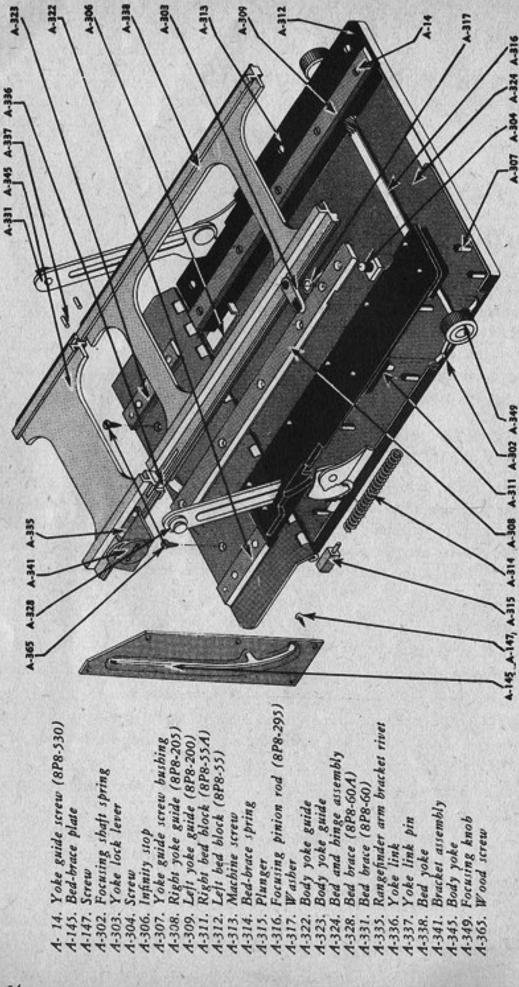
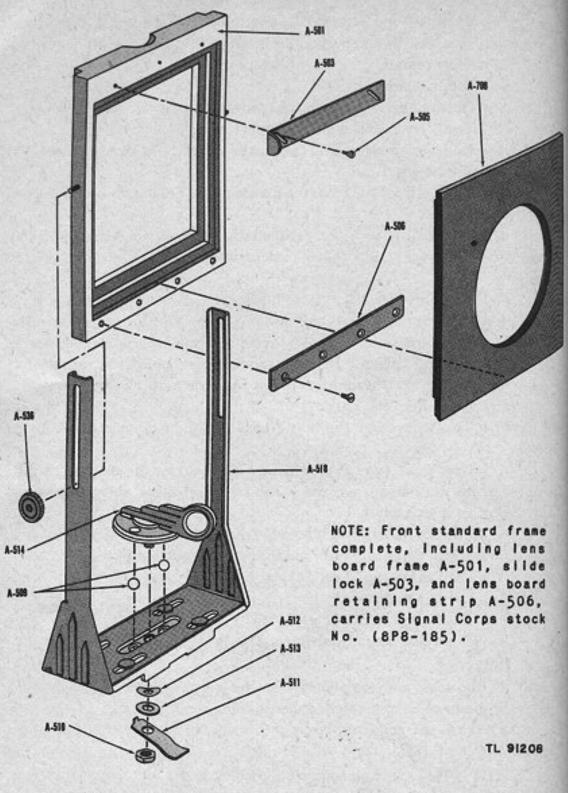


Figure 36. Bed (8P8-40) and yoke (8P8-685) mechanism

TL91210



A-501. Lens board frame
A-503. Slide lock (8P8-268)
A-505. Slide lock screw
A-506. Retaining strip
A-509. Lock balls
A-510. Locknut
A-511. Spring catch

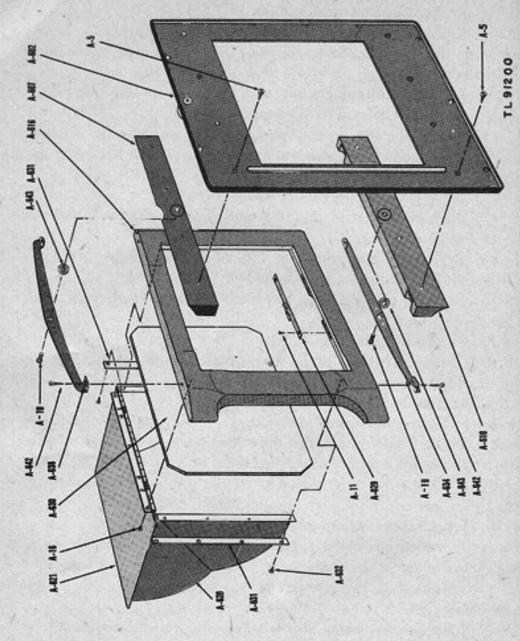
A-512. Front standard spring washer A-513. Front standard flat washer

A-514. Front lock lever

A-518. Front standard assembly (8P8-605)

A-536. Rising front locking nut A-708. Lens board (8P8-6251)

Figure 52. Camera front, exploded view



Focusing-frame spring screw Focusing-frame spring washer

Screen spring Screen spring

A-638.

A-634.

A-642.

Screw

A-632.

A-631.

Focusing-panel catch Ground glass Ground-glass retaining strip

Back bottom molding

Focusing frame

Back top molding

A-602.

Screw

Screw Screw Screw Focusing-screen cover

A-621.

A-628.

A-616.

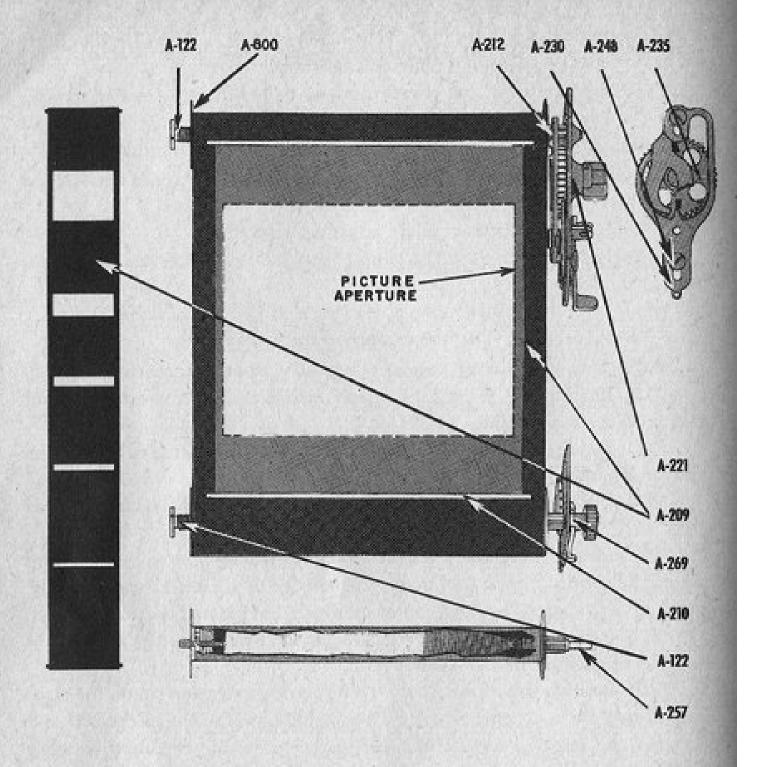
A-610.

A-607.

A-629.

A-630.

Figure 53. Camera back (8P8-13), exploded view



TL92921

A-122. Curtain roller bearing

A-209. Shutter curtain

A-210. Curtain edging slit
A-212. Top gear roller assembly
A-221. Shutter plate
A-800. Upper shutter roller

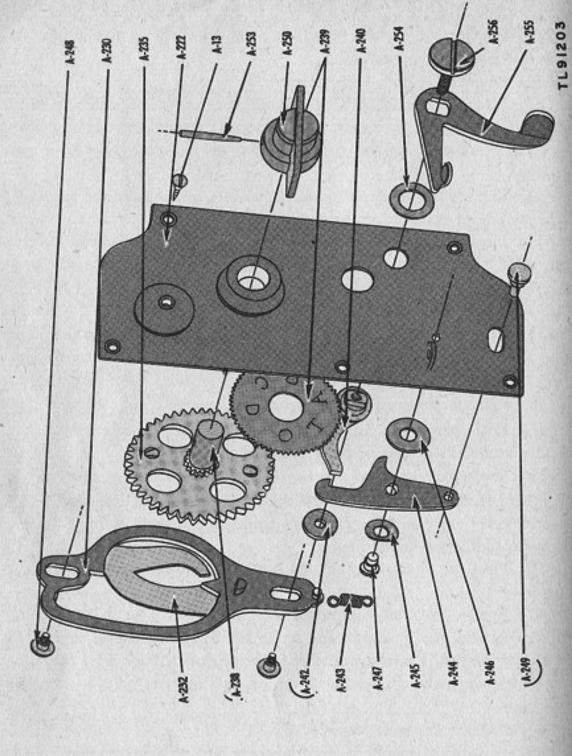
A-230. Escapement A-235. Master gear

A-248. Screw

A-257. Bottom tension roller assembly

A-269. Tension plate

Figure 54. Focal plane shutter mechanism (8P8-125)



Shutter winding key (8P8-225) Taper pin (8P8-300)

A-250.

A-253.

Shutter lock latch

Screw

Escapement spring washer

Shutter latch lock

A-244.

Escapement lever Locknut Spring (8P8-575)

> A-242. A-243.

Shutter plate (8P8-335) Escapement (8P8-140)

A-222. A-230. A-235. A-238. A-239. A-240.

urtain brake

Screw (8P8-500)

Master gear stem

Master gear

ndicator gear

Sbutter lock latch stud

Lockwasher

A-245.

A-247. A-248. A-249. Shutter-release lever (RPR-255)

Release lever screw

A-256.

Spacer washer (8P8-665)

Figure 55. Curtain-setting mechanism

Plate (8P8-340)

Roller rod assembly

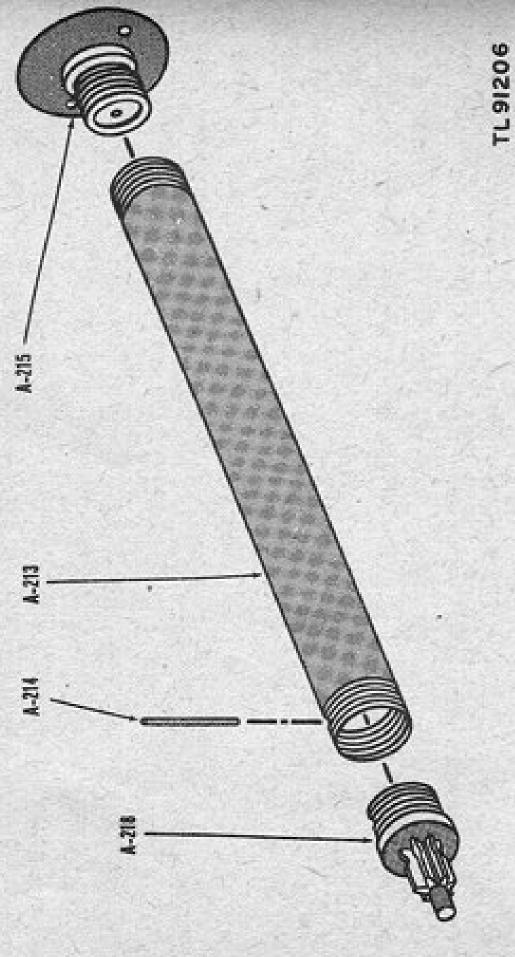
A-266.

Snail (8P8-555)

A-288. A-289.

A-274 A-275 A-289 A-276

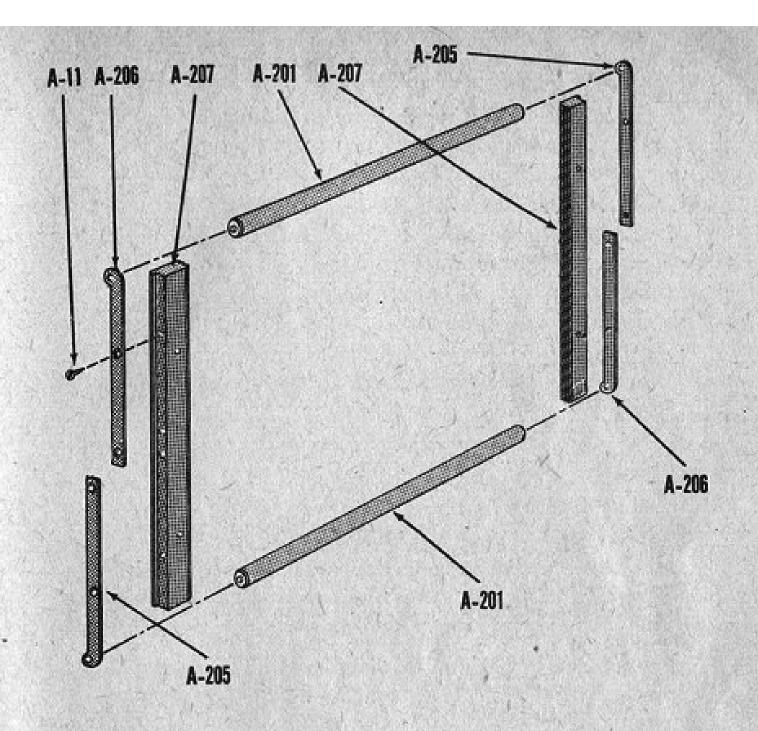
Figure 56. Tension-setting mechanism



A-213. Tube A-214. Pin

A-215. Bushing assembly A-218. Pinion assembly

Figure 58. Upper shutter roller mechanism (8P8-190)



TL 91207

A- 11. Strip screw

A-201. Idler

A-205. Top right and lower left idler

A-206. Top left and lower right idler

A-207. Idler block

Figure 59. Idler block assembly (8P8-220)

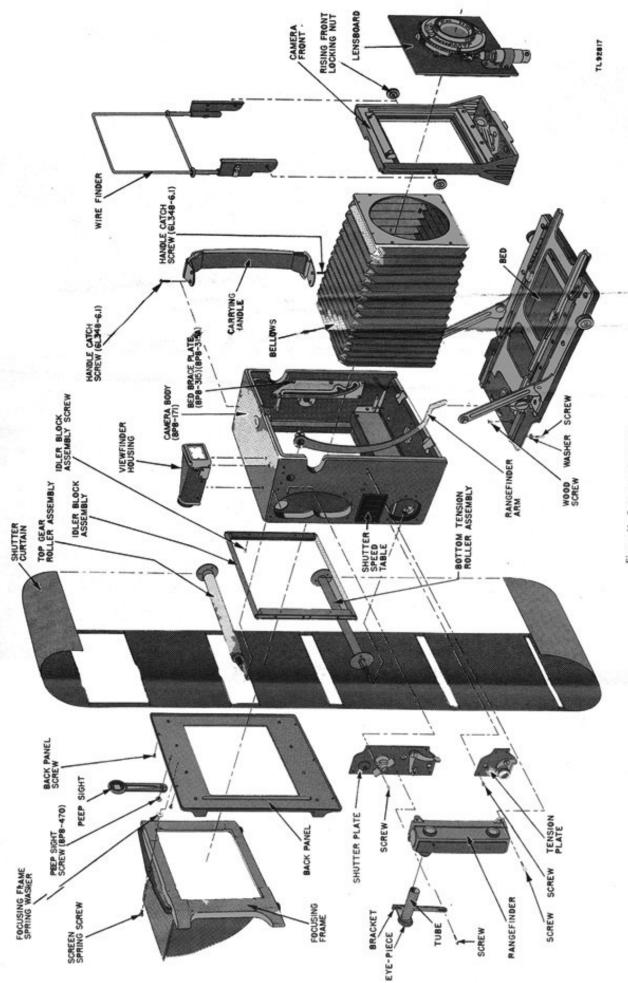


Figure 68. Camera, exploded view

APPENDIX

SECTION XI MAINTENANCE PARTS LISTS

84. MAINTENANCE PARTS LIST FOR CAMERA EQUIPMENT PH-104.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per unit	Run- ning spares	Orgn stock			Depot
Fig. 16	8A10A	ADAPTER: film pack, metal, 4 x 5", complete with slide graphic, all metal or equal. (See list for Adapter PH-110-A, paragraph 93.)	1					
Fig. 2	8A3275-308	CABLE RELEASE: Folmer Graflex; PH-308; 71/2" lg; fits super- matic #2 shutter.	1		•	**	••	•
Fig. 3	8A347E	CAMERA: Folmer Graflex; PH-47E; 4" x 5" speed graphic; w/127mm Ektar lens.						
Fig. 2	8A523D	CASE: camera carrying Folmer Graflex; PH-83-D; compartment type; size about 19½" x 11½"; fibre material. (See list for Case PH-83-D, paragraph 95.)						
Fig. 2	8A830A	CLOTH: focusing; EKCo; 40" x 48"; bound at all edges.	1			**		
Fig. 2	8P8-110 F	CORD: extension: Folmer Graflex catalog #150; 15 ft lg w/molded peanut size female right angle connectors at both ends; w/standard female receptacle.	1 .			••	**	•
Fig. 2	8A1099/x1-2	FILTER: Wratten X-1, 15/8" diam, in B glass (Kodak Series VI or equal).	1			**		•

Fig. 2	8A1099/2-2	FILTER: Wratten K-2, 15%" diam, in B glass (Kodak Series VI or equal).	1			**	•
Fig. 2	8A1099/G-2	FILTER: EKCo; Wratten G; Kodak Series VI; EKC or equal.	1			**	
Fig. 2	8A1100-380	FILTER: PH-380 (Wratten Aero 2, Eastman Kodak Co., 4" square, in B glass; used to vary tonal relationship in the photography of colored objects; u/w but not part of PH-120A and PH-195A).	1		••		
Fig. 17	8A1701 *	HOLDER: cut film: Folmer Graflex; PH-81; 4" x 5"; wooden construction; w/ opaque dark side; complete w/ septums graphic type.	6				
Fig. 18	8A2576A	LENS HOOD: and filter holder; EKCo Series VI; PH-106A; includes 13/2" Kodak adapter ring and Kodak lens hood.	1			**	•
Fig. 12	8P8-538	LIGHTING UNIT: side.	1		**	**	
Fig. 24	8A3698.3	SYNCHRONIZER: flash; Graflex #37 (metal battery case w/ 7" adjustable reflector for standard base bulbs; used with supermatic shutter on Camera PH-47E).					
Fig. 14	8A4121	TRIPOD PH-121: (overall dimen 4" diam by 161/4" lg; Crown #1, or equal).	1				

^{*}Indicates stock available.

^{**}Indicates that parts may be requisitioned as needed for depot stocks.

85. MAINTENANCE PARTS LIST FOR CAMERA PH-47-E.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per unit	Run- ning spares	Orgn stock	1000000	E1000000	(500000)	Depot štock
	8P8-25	BEARING: roller.	2				**	••	
Fig. 36	8P8-40	BED: complete.	1				**	**	
Fig. 6	8P8-45	BELLOWS: complete, interior-cloth, exterior-black leather.	1				**	**	*
Fig. 36 (A-312)	8P8-55	BLOCK: bed, left, bakelite, black, moul-led.	1		•		**	**	•
Fig. 36 (A-311)	8P8-55A	BLOCK: bed, right, bakelite, black, moulded.	1		•		**	**	
Fig. 36 (A-331)	8P8-60	BRACE: bed, left.	/1				**	**	•
Fig. 36 (A-346)	8P8-6A	BRACE: bed, right.	i		1		**	••	•
Fig. 9 (16)	8P8-75	CATCH: focusing panel.	1				**	**	•
Fig. 54	8P8-125	CURTAIN: assembly, focal plane shutter, with struts.	1			Set	**	**	
Fig. 56 (A-275)	8P8-490	DOG: tension, brass; used as stop for tension snail.	1				**	**	•
Fig. 55 (A-230)	8P8-140	ESCAPEMENT: shutter.	1				**	**	•
	8P8-155	FEET: rubber; for bottom of camera case.	4				**	**	•
Fig. 9 (5)	8P8-165	FINDER ASSEMBLY: wire (for swinging peepsight).	1				**	**	
Fig. 9	8P8-175	FRAME: complete, focusing; with strips, catch and ground glass.	1				**	**	1
Fig. 52	8P8-52	FRAME: complete, front standard, with slide lock and lens board strip.	1	- \			**	**	•

Fig. 24	8A3698.3	FLASHGUN: and Synchronizer Graflex #37. (See list for Folmer Graflex Flashgun, paragraph 92.)	1				
Fig. 36	8P8-200	GUIDE: bed yoke, left.	1		**	**	
(A-322)							
Fig. 36 (A-323)	8P8-205	GUIDE: bed yoke, right.	1		**	**	
Fig. 3	8P8-210	HANDLE: carrying, leather; with ring and pad.	1		**	**	
Fig. 11 (6)	8P8-215	HOUSING: tubular viewfinder, bakelite, black, moulded.	1			**	
Fig. 59	8P8-220	IDLER ASSEMBLY: with idler pin.	2		**	**	
Fig. 55 (A-250)	8P8-225	KEY: shutter winding.	1			**	
Fig. 55 (A-255)	8P8-255	LEVER: shutter release.	1				
Fig. 5	8P8-260	LEVER: yoke lock.	1	/		**	
Fig. 3	8P8-268	LOCK: lensboard slide, for locking lensboard in place; SAE #1010CR steel, .040 inch thick with two diagonal slots 33/4" lg x 3/4" w length.	1		**	**	
Fig. 11 (7)	8P8-270	MASK: viewfinder, removable.	1		"	**	
Fig. 3	8P8-280	NUT: rising front screw, for raising front frame.	2	3.0	**	**	
Fig. 56 (A-289)	8P8-285	NUT: tension.	1			**	
Fig. 55 (A-253)	8P8-300	PIN: taper; winding key.	1	•		**	
Fig. 36	8P8-295	PINION ASSEMBLY: focusing, complete with knobs.	1		**	**	•

^{*}Indicates stock available.

^{**}Indicates that parts may be requisitioned as needed from depot stocks.

85. MAINTENANCE PARTS LIST FOR CAMERA PH-47-E (CONTD).

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per unit	Run- ning spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
Fig. 23	8P8-310	PLATE: aperture.	1				**	**	*
Fig. 68	8P8-315	PLATE: brace, left side.	î	The same			**	**	*
Fig. 68	8P8-315A	PLATE: brace, right side.	î		AL AND		**	**	
	8P8-320	PLATE: handle.	1				**	**	*
Fig. 55	8P8-335	PLATE: shutter, complete.	1				**	**	
(A-222)									
Fig. 56	8P8-340	PLATE: tension, complete.	1				**	**	*
Fig. 65	8P8-345	RANGEFINDER: Hugo Meyer #4C. (See list for Hugo Meyer rangefinder (Model 4C), paragraph 90.)	1						
Fig. 57	8P8-360	ROLLER ASSEMBLY: tension.	1				**	**	
Fig. 58	8P8-190	ROLLER ASSEMBLY: upper shutter.	1				**	**	
Fig. 68	8P8-365	SCREW: back frame.	5				**	**	
Fig. 68	8P8-370	SCREW: back spring.	2				**	**	
	8P8-375	SCREW: back to case.	5				**	**	
	8P8-380	SCREW: bed catch, handle catch and spring.	2				**	**	*
1	8P8-400	SCREW: focusing frame catch, idler block strip.	4				**	**	
	8P8-410	SCREW: foot.	4				**	**	
Fig. 6 (8)	8P8-415	SCREW: front bellows.	4				**	**	
	8P8-435	SCREW: handle lug or side plate.	2		14		**	**	
	8P8-440	SCREW: hinge, focusing frame.	4					**	
	8P8-445	SCREW: idler block.	4		29-34			**	
	8P8-450	SCREW: lensboard slide lock 1-56 x 3 inch F.HM.T.	2					**	
	8P8-455	SCREW: lensboard retaining strip 3 inch #2 O.H. Parker Kalon Type Z.	2					**	

Fig. 11	8P8-460	SCREW: viewfinder housing to base 1/4 inch #3 R.H. Wood.	3			**	**	
Fig. 68	8P8-470	SCREW: peepsight (swing type).	3			**	**	
Fig. 55	8P8-480	SCREW: shutter escapement.	2			**	**	
(A-948)				6 M. 18				
Fig. 55	8P8-485	SCREW: shutter release lever.	1			**	**	*
(A-256)								
Fig. 56	8P8-490	SCREW: tension dog, 2-56 R.HT.M.	1			**	**	*
A-276)								
Fig. 56	8P8-495	SCREW: tension indicator.	1			**	**	*
(A-288)						**	**	*
Fig. 55	8P8-500	SCREW: tension or shutter plate.	10			**	**	*
(A-13)								
Fig. 36	8P8-530	SCREW: yoke guide.	10			**	**	*
(A-304)								
	8P8-535	SCREW: yoke lock, 8-40 x ¼ inch.	1			**	**	*
Fig. 36	6L6256-3.2	SCREW: bed block, 2-56 x $\frac{3}{16}$ inch brass, O.H.	6			**	**	*
(A-313)								
Fig. 68	6L6348-6.1	SCREW: handle catch, brass 3-48 x 3/8 inch R.H.	2	100		**	**	*
Fig. 11 (8)	6L6256-3.1	SCREW: viewfinder cap, brass 2-56 x $\frac{3}{16}$ inch R.H.	2		7	**	**	•
Fig. 69	8A-3651	SHUTTER: Supermatic #2 FG#69939. (See list for Supermatic Shutter, paragraph 88.)	1					
Fig. 9 (4)	8P8-540A	SIGHT: peep, swing type.	1	\	•	**	**	•
Fig. 56	8P8-555	SNAIL: tension plate.	1			**	**	*
(A-290)								
Fig. 55	8P8-575	SPRING: escapement.	1		A. C.	**	**	*
(A-243)								

^{*}Indicates stock available.

^{**}Indicates that parts may be requisitioned as needed from depot stocks.

85. MAINTENANCE PARTS LIST FOR CAMERA PH-47-E (CONTD).

Orgn 3d 4th 5th Depot stock ech ech ech stock	*	*	, ;-;		٠	•	•	*	
Sth ech	*	:		*	*	*	*	*	
4th ech	*	:		#	*	*	*	*	
3d ech									
Orgn				•					
Run- ning spares									1
Quan per unit	1	-	н	·-		1	-	1	1
Name of part and description	SPRING: handle catch; leaf type.	SPRING: screen bottom. SPRING: screen, top.	SPRING: tension dog.	STANDARD: front.	TACKS: aperture plate, round-head.	TACKS: ¼ inch #21 bellows, flat-head.	WASHER: escapement lever.	YOKE: complete.	GLASS: ground; 4" x 5", for Ground Glass Focusing.
Signal Corps stock No.	8P8-585	8P8-590 8P8-590A	8P8-600	8P8-605	8P8-640	8P8-635	8P8-665	8P8-685	8A-1201
Ref symbol			Fig. 56 (A-274)	Fig. 52 (A-518)	Fig. 23	Fig. 6 (3)	Fig. 55 (A-254)	Fig. 36	Fig. 9 (17)

*Indicates stock available.

^{**}Indicates that parts may be requisitioned as needed for depot stocks.